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COMPLETE SPECIFICATION.

Improvements in Pocket-knives.

I, EDMUND JANSEN, of Höhscheid-Solingen, in the Province of the Rhine, German Empire, Manufacturer do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

6 This invention refers to pocket knives, and my improvements in knives of this kind relate to means for opening the blade or blades without touching the same. In turning my invention into practice I provide the tang of the blade with a number of projections or teeth arranged in a semi-circle around the pin holding the tang, or the blade respectively, in other words, I let the tang represent a semi-circular cog-wheel. I then arrange a rack between said cogged tang and the back plate or spring of the knife, and I provide said rack with a projection extending outwards through a slot of the shell. The projecting portion proper of said projection is provided with a slide, button or equivalent means situated upon the outside of the shell, and enabling a finger of the operator to take hold upon it, and to open or close the blade by displacing the rack in one or the other direction.

In order to make my invention more clear, I refer to the accompanying drawing, in which similar letters denote similar parts throughout the different views, and in which :

20 Figure 1 is a side-view of a pocket-knife constructed according to my invention, a portion of the shell being removed, and a blade being opened,

Figure 2 shows the parts of Figure 1 seen from the left side of this figure;

Figure 3 shows in an enlarged scale the cogged tang and the adjacent portion of the slide forming the rack, and

Figure 4 shows the parts of Figure 3 seen from the left side of this figure.

25 In the form of construction represented in the afore mentioned figures the tang  $a^1$ , Figures 2 & 4, of the blade  $a$  is provided with a special cogged part  $a^2$ , Figures 3 & 4, which is secured to the tang proper  $a^1$  by a pin  $a^3$ , Figures 1 & 3, and which is moreover held by the pin  $a^4$  forming the fulcrum for the blade. The pin  $a^4$  is held by the two side-plates  $c^1$  of the shell. The latter are moreover connected by a back-plate  $c^2$  which serves as a guide for a slide  $n$ , a portion of which is formed into a rack  $n^1$ . Said rack meshes with the cogged part  $a^2$  afore mentioned.

35 The slide  $n$  is provided with a lateral arm  $n^2$  which passes to the outside of the shell of the knife through a slot provided in the plate  $c^1$  of the shell, and which is connected with a slide  $n^3$  covering said slot. Said slide  $n^3$  serves as a place of application for a finger of the operator, or serves for opening and closing the blade respectively. If the slide  $n^3$  is displaced in a direction away from the pin  $a^3$ , then the blade  $a$  is opened by the influence of the rack  $n^1$  upon the cogged tang  $a^2$ ; if, however, the slide  $n^3$  is displaced in an opposite direction, then the blade  $a$  is closed, as will be clear without further explanation.

45 There are two blades in the pocket knife shown in the drawing, and each of said blades is combined with an opening and closing device of the kind afore described. The slide  $n^4$ , Figure 2, for the second blade is situated upon the other side of the casing, or upon the side blade  $c$  respectively, but I wish it to be understood, that the two slides may well be situated upon one and the same side, and that there may be more than two of the opening and closing devices in question.

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*Jansen's Improvements in Pocket-knives.*

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arranged in a knife, provided, there be more than two blades. The slides n3 n4 may well be replaced by buttons or similar projections, and there may, if desired, be two of such slides, buttons or similar projections combined with one blade, provided, one slide *etc.* be situated on one side, the other upon the other side of the casing of the knife. 5

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is :—

In a pocket-knife, the combination with the tang or tangs of the blade or blades, and of cogs projecting from said tang or tangs, of a rack or racks meshing with said cogged tang or tangs, and means for displacing said rack or racks from the outside of the knife, for the purpose as described. 10

Dated this 1st day of September 1896.

EDMUND JANSEN,  
By Geo. H. Rayner,  
Agent for the Applicant. 15

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Fig 1

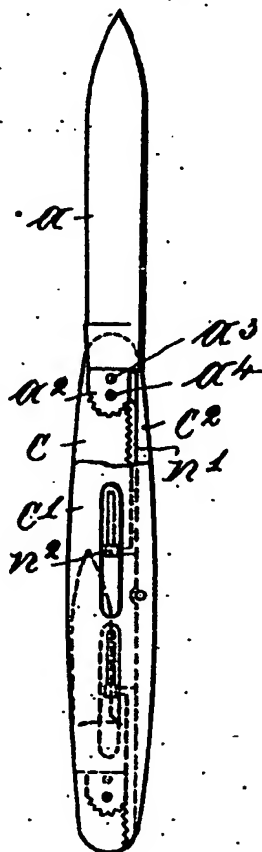


Fig 2

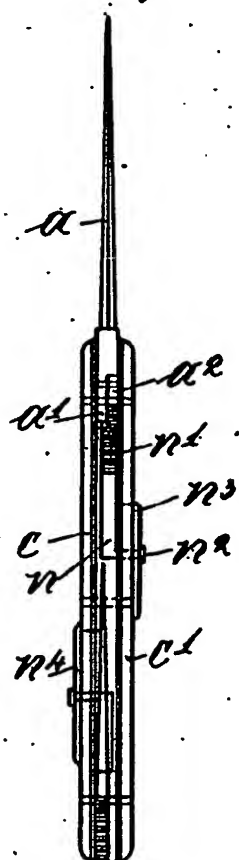


Fig 3

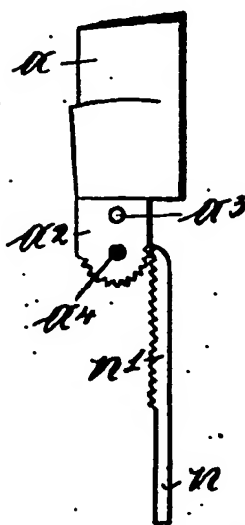
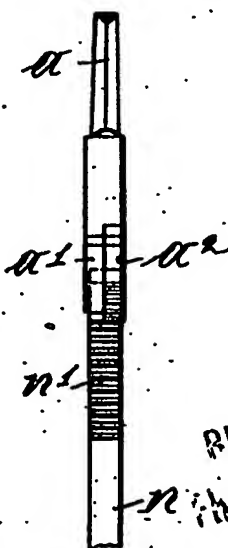


Fig 4



[This Drawing is a reproduction of the Original on a reduced scale]

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